

# FEBS Advanced Courses

## No. 68 IMMUNOLOGY: FUNCTIONAL CHARACTERIZATION OF T CELLS

Heidelberg, FRG, 1-10 April 1981

The Course will consist of an all-day practical experimentation program aimed at the understanding of modern technology for the study of T lymphocytes. The practical program will be supplemented by introductory instructions as well as by a series of overview lectures. The teaching staff will include: B Arnold, P Altevogt, K Bosslet, W Dröge, K Eichmann, G Fathman, E Gelfand, J Goronzy, G Hämmerling, N Koch, P Krammer, V Lehmann, A N Mitchison, R McDonald, F Melchers, I Melchers, P Robinson, V Schirmmacher, M Simon, H Waldmann and R Zinkernagel. Course fee: \$150. Applications, with curriculum vitae, list of publications, a short summary of current research interests and, preferably, a letter of recommendation, should reach K Eichmann, Institute for Immunology and Genetics, Deutsches Krebsforschungszentrum, Im Neuenheimer Feld 280, 6900 Heidelberg, FRG, by 10 January 1981.

## No. 76 MODERN TECHNIQUES OF RIBONUCLEIC ACIDS ANALYSIS

Sofia, Bulgaria, 20-27 April 1981

A course of lectures, discussions and experimental work on isolation of RNA (special reference to mRNA); Reverse transcription of RNA; Cell-free translation of mRNA; RNA:DNA hybridization techniques; Primary and secondary structure of RNA. Course fee: \$70. Living expenses: \$150 approx. Applications (by 1 December 1980) and further information: Professor A A Hadjiolov, Institute of Molecular Biology, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria.

## No. 78 CURRENT METHODS IN STRUCTURAL MOLECULAR BIOLOGY

Maratea, Italy, 3-16 May 1981

An interdisciplinary course of review lectures, research seminars, poster sessions and discussion periods, co-sponsored by NATO and organized by D B Davies, S S Danyluk and W Saenger, covering present uses and new developments in biophysical methods (e.g. X-ray diffraction and scattering, neutron scattering, electron microscopy, NMR, chiroptical and optical spectroscopy, light scattering, relaxation techniques and calorimetric methods) and their applications in determining the structures and organization of biological molecules. Some emphasis will be placed on four topics of current interest: Structural dynamics of water in biological systems; Structural dynamics of biological molecules; Protein-nucleic acid interactions; Structure and assembly of viruses. The invited lecturers include: T Ackermann, C Altona, S Arnott, T L Blundell, A Crowther, J Finney, K Holmes, B Jacrot, S Lifson, H McConnell, W L Peticolas, D Pörschke, A Rich, I Tinoco and K Wüthrich. The keynote address will be given by Manfred Eigen. Total cost, including accommodation: £230 approx. Further information and applications (by 1 December 1980): Dr D B Davies, Department of Chemistry, Birkbeck College, Malet Street, London WC1E 7HX, England.

## No. 75 IMMUNOLOGICAL METHODS AND APPLICATIONS

Göd, Hungary, 22 May - 6 June 1981

A course of lectures, demonstrations and practical work, to be held at the L Eötvös University, Göd (23 km from Budapest). Registration fee (including accommodation, full board and local transportation): \$350. Info: Professor J Gergely, Department of Immunology, L Eötvös University, H-2131 Göd, Jávorka S.u.14, Hungary.

## No. 77 TRANSPORT AND ENERGY TRANSFORMATION IN BIOMEMBRANES

Prague, Czechoslovakia, 22 June - 3 July 1981

The Course is organized by Z Drahota and A Kotyk to provide information and technical know-how on selected methods of transport and membrane energetics, e.g. Preparation of purified membranes and isolation of membrane components; Preparation of membrane vesicles; Immunological and biochemical characterization of some membrane proteins; Interaction of membranes with fluorescent and radioactive ligands; Estimation of specific transport functions; Measurement of electrical properties of biomembranes; Computer evaluation of experimental data and modelling. Registration fee, including technical and material expenses, accommodation and lunch, will not exceed \$250. Applications (by 31 January 1981) and further information: Dr A Kotyk, Institute of Microbiology CSAV, Vídeňská 1083, 142 20 Praha - Krč, Czechoslovakia.

## No. 74 PROTEINASES IN MAMMALIAN TISSUES AND CELLS

Halle (Saale), GDR, 20-26 July 1981

A course of lectures, experimental work and discussions on cellular proteinases, their substrates and inhibitors (including kinetics), their quantitative determination and purity; membrane-bound proteinases. Course fee for the full course: 400M; for the lecture course only: 100M. Living expenses (student accommodation and food): 150M approx. Applications (before 1 February 1981) and further information: Dr H Kirschke, Institute for Physiological Chemistry, Martin Luther University, DDR-402 Halle (Saale), P.O.B. 184, German Democratic Republic.